

ANALYTICAL REPORT

Job Number: 360-35898-1

Job Description: Olin Chemical Surfacewater Quarterly

CHECKED FOR COMPLETENESS
OF PARAMETERS ORDERED BY:
[Signature]

9/21/11

For:
Olin Corporation
PO BOX 248
Charleston, TN 37310-0248
Attention: Mr. James Cashwell

Joseph A. Chimi

Approved for release.
Joe Chimi
Report Production Representative
9/7/11 11:18 AM

Designee for
Becky C Mason
Project Manager II
becky.mason@testamericainc.com
09/07/2011

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. TestAmerica Westfield Certifications and Approvals: MADEP MA014, RIDOH57, CTDPH 0494, VT DECWSD, NELAP NH DES 2539, NELAP NY 10843, NY ELAP 10843, North Carolina 647. Field sampling is performed under SOPs WE-FLD-001 and WE-FLD-002.

TestAmerica Laboratories, Inc.TestAmerica Westfield Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085
Tel (413) 572-4000 Fax (413) 572-3707 www.testamericainc.com

Table of Contents

Cover Title Page	1
Report Narrative	3
Executive Summary	6
Method Summary	9
Method / Analyst Summary	10
Sample Summary	11
Sample Results	12
Sample Datasheets	13
Data Qualifiers	27
QC Results	28
Qc Association Summary	29
Qc Reports	33
Shipping and Receiving Documents	47
Sample Receipt Checklist	48
Client Chain of Custody	49

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Westfield** Project #: **360-35898-1**

Project Location: **Wilmington, MA** RTN:

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):

360-35898-(1-7)

Matrices: Groundwater/Surface Water Soil/Sediment Drinking Water Air Other:

CAM Protocols (check all that apply below):

8260 VOC CAM II A <input type="checkbox"/>	7470/7471 Hg CAM III B <input type="checkbox"/>	Mass DEP VPH CAM IV A <input type="checkbox"/>	8081 Pesticides CAM V B <input type="checkbox"/>	7196 Hex Cr CAM VI B <input type="checkbox"/>	Mass DEP APH CAM IX A <input type="checkbox"/>
8270 SVOC CAM II B <input type="checkbox"/>	7010 Metals CAM III C <input type="checkbox"/>	Mass DEP EPH CAM IV B <input type="checkbox"/>	8151 Herbicides CAM V C <input type="checkbox"/>	8330 Explosives CAM VIII A <input type="checkbox"/>	TO-15 VOC CAM IX B <input type="checkbox"/>
6010 Metals CAM III A <input checked="" type="checkbox"/>	6020 Metals CAM III D <input type="checkbox"/>	8082 PCB CAM V A <input type="checkbox"/>	9014 Total Cyanide/PAC CAM VI A <input type="checkbox"/>	332.0 Perchlorate CAM VIII B <input type="checkbox"/>	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
E	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
----------	---	--

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

¹ All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature:

Position:

Laboratory Director

Printed Name:

Steven C. Hartmann

Date:

9/7/11 10:31

This form has been electronically signed and approved

CASE NARRATIVE

Client: Olin Corporation

Project: Olin Chemical Surfacewater Quarterly

Report Number: 360-35898-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 08/23/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 0.3 and 1.0 C.

TOTAL METALS (ICP)

Samples OC-SW-ISCO1 (360-35898-1), OC-SW-ISCO2 (360-35898-2), OC-SW-ISCO3 (360-35898-3), OC-SW-PZ-16RRSW (360-35898-4), OC-SW-PZ-17RRSW (360-35898-5), OC-SW-PZ-18RSW (360-35898-6) and OC-SW-SD-17 (360-35898-7) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 08/25/2011 and analyzed on 08/26/2011.

At the request of the client, an abbreviated/modified MCP analyte list was reported for this job.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED METALS

Samples OC-SW-ISCO1 (360-35898-1), OC-SW-ISCO2 (360-35898-2), OC-SW-ISCO3 (360-35898-3), OC-SW-PZ-16RRSW (360-35898-4), OC-SW-PZ-17RRSW (360-35898-5), OC-SW-PZ-18RSW (360-35898-6) and OC-SW-SD-17 (360-35898-7) were analyzed for dissolved metals in accordance with EPA SW-846 Method 6010B. The samples were analyzed on 09/01/2011.

Sodium was detected in method blank MB 360-79397/2 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

At the request of the client, an abbreviated/modified MCP analyte list was reported for this job.

No other difficulties were encountered during the dissolved metals analyses.

All other quality control parameters were within the acceptance limits.

ANIONS (28 DAY HOLD TIME)

Samples OC-SW-ISCO1 (360-35898-1), OC-SW-ISCO2 (360-35898-2), OC-SW-ISCO3 (360-35898-3), OC-SW-PZ-16RRSW (360-35898-4), OC-SW-PZ-17RRSW (360-35898-5), OC-SW-PZ-18RSW (360-35898-6) and OC-SW-SD-17 (360-35898-7) were analyzed for anions (28 day hold time) in accordance with EPA Method 300.0. The samples were analyzed on 08/24/2011.

Samples OC-SW-ISCO1 (360-35898-1)[10X], OC-SW-ISCO2 (360-35898-2)[10X], OC-SW-ISCO3 (360-35898-3)[10X], OC-SW-PZ-16RRSW (360-35898-4)[10X], OC-SW-PZ-17RRSW (360-35898-5)[10X], OC-SW-PZ-18RSW (360-35898-6)[10X] and OC-SW-SD-17 (360-35898-7)[10X] required dilution prior to analysis due to high target concentration. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

ANIONS (48 HR HOLD TIME)

Samples OC-SW-ISCO1 (360-35898-1), OC-SW-ISCO2 (360-35898-2), OC-SW-ISCO3 (360-35898-3), OC-SW-PZ-16RRSW

(360-35898-4), OC-SW-PZ-17RRSW (360-35898-5), OC-SW-PZ-18RSW (360-35898-6) and OC-SW-SD-17 (360-35898-7) were analyzed for anions (48 hr hold time) in accordance with EPA Method 300.0. The samples were analyzed on 08/24/2011.

Samples OC-SW-ISCO1 (360-35898-1)[10X], OC-SW-ISCO2 (360-35898-2)[10X], OC-SW-ISCO3 (360-35898-3)[10X], OC-SW-PZ-16RRSW (360-35898-4)[10X], OC-SW-PZ-17RRSW (360-35898-5)[10X] and OC-SW-SD-17 (360-35898-7)[10X] required dilution prior to analysis due to the presence of elevated Chloride concentration, which co-elutes with the Nitrite peak. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

AMMONIA

Samples OC-SW-ISCO1 (360-35898-1), OC-SW-ISCO2 (360-35898-2), OC-SW-ISCO3 (360-35898-3), OC-SW-PZ-16RRSW (360-35898-4), OC-SW-PZ-17RRSW (360-35898-5), OC-SW-PZ-18RSW (360-35898-6) and OC-SW-SD-17 (360-35898-7) were analyzed for ammonia in accordance with Lachat 107-06-1B. The samples were prepared on 08/30/2011 and 09/02/2011 and analyzed on 08/30/2011 and 09/06/2011.

Ammonia failed the recovery criteria high for the MS and MSD of sample OC-SW-SD-17MS (360-35898-7) in batch 360-79587. The associated LCS recovered within control limits. Refer to the QC report for details.

Samples OC-SW-ISCO1 (360-35898-1)[10X], OC-SW-ISCO2 (360-35898-2)[10X], OC-SW-PZ-16RRSW (360-35898-4)[10X], OC-SW-PZ-17RRSW (360-35898-5)[10X], OC-SW-PZ-18RSW (360-35898-6)[5X] and OC-SW-SD-17 (360-35898-7)[5X] required dilution prior to analysis due to high concentration. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the ammonia analyses.

All other quality control parameters were within the acceptance limits.

SPECIFIC CONDUCTIVITY

Samples OC-SW-ISCO1 (360-35898-1), OC-SW-ISCO2 (360-35898-2), OC-SW-ISCO3 (360-35898-3), OC-SW-PZ-16RRSW (360-35898-4), OC-SW-PZ-17RRSW (360-35898-5), OC-SW-PZ-18RSW (360-35898-6) and OC-SW-SD-17 (360-35898-7) were analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 09/01/2011.

No difficulties were encountered during the conductivity analyses.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 360-35898-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
360-35898-1 OC-SW-ISCO1						
Aluminum	150			100	ug/L	6010B
Chromium	16			5.0	ug/L	6010B
Sodium	73000			2000	ug/L	6010B
Sulfate	130			20	mg/L	300.0
Nitrate as N	0.080			0.050	mg/L	300.0
Chloride	110			10	mg/L	300.0
Ammonia	37			1.0	mg/L	L107-06-1B
Specific Conductance	790			1.0	umhos/cm	SM 2510B
<i>Dissolved</i>						
Aluminum	40	J		100	ug/L	6010B
Chromium	8.6			5.0	ug/L	6010B
Sodium	90000	B		2000	ug/L	6010B
360-35898-2 OC-SW-ISCO2						
Aluminum	230			100	ug/L	6010B
Chromium	51			5.0	ug/L	6010B
Sodium	150000			2000	ug/L	6010B
Sulfate	580			20	mg/L	300.0
Nitrate as N	0.79			0.050	mg/L	300.0
Chloride	170			10	mg/L	300.0
Ammonia	98			1.0	mg/L	L107-06-1B
Specific Conductance	2200			1.0	umhos/cm	SM 2510B
<i>Dissolved</i>						
Aluminum	36	J		100	ug/L	6010B
Chromium	13			5.0	ug/L	6010B
Sodium	190000	B		2000	ug/L	6010B
360-35898-3 OC-SW-ISCO3						
Aluminum	53	J		100	ug/L	6010B
Chromium	1.2	J		5.0	ug/L	6010B
Sodium	82000			2000	ug/L	6010B
Sulfate	22			2.0	mg/L	300.0
Nitrate as N	0.70			0.050	mg/L	300.0
Chloride	200			10	mg/L	300.0
Ammonia	1.7			0.10	mg/L	L107-06-1B
Specific Conductance	800			1.0	umhos/cm	SM 2510B
<i>Dissolved</i>						
Sodium	99000	B		2000	ug/L	6010B

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 360-35898-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
360-35898-4	OC-SW-PZ-16RRSW					
Aluminum	1900			100	ug/L	6010B
Chromium	560			5.0	ug/L	6010B
Sodium	160000			2000	ug/L	6010B
Sulfate	620			20	mg/L	300.0
Nitrate as N	0.39			0.050	mg/L	300.0
Chloride	190			10	mg/L	300.0
Ammonia	110			1.0	mg/L	L107-06-1B
Specific Conductance	2300			1.0	umhos/cm	SM 2510B
<i>Dissolved</i>						
Aluminum	1500			100	ug/L	6010B
Chromium	490			5.0	ug/L	6010B
Sodium	200000	B		2000	ug/L	6010B
360-35898-5	OC-SW-PZ-17RRSW					
Aluminum	5700			100	ug/L	6010B
Chromium	1300			5.0	ug/L	6010B
Sodium	160000			2000	ug/L	6010B
Sulfate	600			20	mg/L	300.0
Nitrate as N	0.18			0.050	mg/L	300.0
Chloride	190			10	mg/L	300.0
Ammonia	110			1.0	mg/L	L107-06-1B
Specific Conductance	2200			1.0	umhos/cm	SM 2510B
<i>Dissolved</i>						
Aluminum	1400			100	ug/L	6010B
Chromium	600			5.0	ug/L	6010B
Sodium	190000	B		2000	ug/L	6010B
360-35898-6	OC-SW-PZ-18RSW					
Aluminum	140			100	ug/L	6010B
Chromium	15			5.0	ug/L	6010B
Sodium	67000			2000	ug/L	6010B
Sulfate	130			20	mg/L	300.0
Nitrate as N	0.078			0.050	mg/L	300.0
Chloride	110			10	mg/L	300.0
Ammonia	33			0.50	mg/L	L107-06-1B
Specific Conductance	790			1.0	umhos/cm	SM 2510B
<i>Dissolved</i>						
Aluminum	36	J		100	ug/L	6010B
Chromium	8.2			5.0	ug/L	6010B
Sodium	89000	B		2000	ug/L	6010B

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 360-35898-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
360-35898-7	OC-SW-SD-17					
Aluminum		1200		100	ug/L	6010B
Chromium		280		5.0	ug/L	6010B
Sodium		96000		2000	ug/L	6010B
Sulfate		240		20	mg/L	300.0
Nitrate as N		0.16		0.050	mg/L	300.0
Chloride		130		10	mg/L	300.0
Ammonia		41		0.50	mg/L	L107-06-1B
Specific Conductance		1100		1.0	umhos/cm	SM 2510B
<i>Dissolved</i>						
Aluminum		920		100	ug/L	6010B
Chromium		280		5.0	ug/L	6010B
Sodium		140000	B	2000	ug/L	6010B

METHOD SUMMARY

Client: Olin Corporation

Job Number: 360-35898-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Dissolved Metals Sample Filtration, Field	TAL WFD	SW846 6010B FIELD_FLTRD	
Total Metals Preparation, Total Metals	TAL WFD TAL WFD	SW846 6010B SW846 3010A	
Chloride & Sulfate	TAL WFD	40CFR136A 300.0	
Nitrate & Nitrite	TAL WFD	40CFR136A 300.0	
Nitrogen Ammonia Distillation, Ammonia	TAL WFD TAL WFD	LACHAT L107-06-1B Distill/Ammonia	
Conductivity, Specific Conductance	TAL WFD	SM SM 2510B	

Lab References:

TAL WFD = TestAmerica Westfield

Method References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

LACHAT = LACHAT

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Olin Corporation

Job Number: 360-35898-1

Method	Analyst	Analyst ID
SW846 6010B	Smith, Tim J	TJS
40CFR136A 300.0	Emerich, Rich W	RWE
LACHAT L107-06-1B	Emerich, Rich W	RWE
SM SM 2510B	Stewart, Alyse M	AMS

SAMPLE SUMMARY

Client: Olin Corporation

Job Number: 360-35898-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
360-35898-1	OC-SW-ISCO1	Water	08/23/2011 1025	08/23/2011 1645
360-35898-2	OC-SW-ISCO2	Water	08/23/2011 0915	08/23/2011 1645
360-35898-3	OC-SW-ISCO3	Water	08/23/2011 0900	08/23/2011 1645
360-35898-4	OC-SW-PZ-16RRSW	Water	08/23/2011 0925	08/23/2011 1645
360-35898-5	OC-SW-PZ-17RRSW	Water	08/23/2011 0940	08/23/2011 1645
360-35898-6	OC-SW-PZ-18RSW	Water	08/23/2011 1010	08/23/2011 1645
360-35898-7	OC-SW-SD-17	Water	08/23/2011 0950	08/23/2011 1645

SAMPLE RESULTS

Analytical Data

Client: Olin Corporation

Job Number: 360-35898-1

Client Sample ID: OC-SW-ISCO1Lab Sample ID: 360-35898-1
Client Matrix: WaterDate Sampled: 08/23/2011 1025
Date Received: 08/23/2011 1645**6010B Total Metals**

Analysis Method:	6010B	Analysis Batch:	360-79049	Instrument ID:	Varian ICP
Prep Method:	3010A	Prep Batch:	360-78938	Lab File ID:	082611a.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/26/2011 1221			Final Weight/Volume:	50 mL
Prep Date:	08/25/2011 0735				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	150		13	100
Chromium	16		0.65	5.0
Sodium	73000		280	2000

6010B Dissolved Metals-Dissolved

Analysis Method:	6010B	Analysis Batch:	360-79397	Instrument ID:	Varian ICP
	N/A		N/A	Lab File ID:	090111b.csv
Dilution:	1.0			Initial Weight/Volume:	1.0 mL
Analysis Date:	09/01/2011 1347			Final Weight/Volume:	1.0 mL
Prep Date:	N/A				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	40	J	13	100
Chromium	8.6		0.65	5.0
Sodium	90000	B	280	2000

Analytical Data

Client: Olin Corporation

Job Number: 360-35898-1

Client Sample ID: OC-SW-ISCO2Lab Sample ID: 360-35898-2
Client Matrix: WaterDate Sampled: 08/23/2011 0915
Date Received: 08/23/2011 1645**6010B Total Metals**

Analysis Method:	6010B	Analysis Batch:	360-79049	Instrument ID:	Varian ICP
Prep Method:	3010A	Prep Batch:	360-78938	Lab File ID:	082611a.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/26/2011 1223			Final Weight/Volume:	50 mL
Prep Date:	08/25/2011 0737				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	230		13	100
Chromium	51		0.65	5.0
Sodium	150000		280	2000

6010B Dissolved Metals-Dissolved

Analysis Method:	6010B	Analysis Batch:	360-79397	Instrument ID:	Varian ICP
	N/A		N/A	Lab File ID:	090111b.csv
Dilution:	1.0			Initial Weight/Volume:	1.0 mL
Analysis Date:	09/01/2011 1359			Final Weight/Volume:	1.0 mL
Prep Date:	N/A				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	36	J	13	100
Chromium	13		0.65	5.0
Sodium	190000	B	280	2000

Analytical Data

Client: Olin Corporation

Job Number: 360-35898-1

Client Sample ID: OC-SW-ISCO3Lab Sample ID: 360-35898-3
Client Matrix: WaterDate Sampled: 08/23/2011 0900
Date Received: 08/23/2011 1645**6010B Total Metals**

Analysis Method:	6010B	Analysis Batch:	360-79049	Instrument ID:	Varian ICP
Prep Method:	3010A	Prep Batch:	360-78938	Lab File ID:	082611a.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/26/2011 1232			Final Weight/Volume:	50 mL
Prep Date:	08/25/2011 0737				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	53	J	13	100
Chromium	1.2	J	0.65	5.0
Sodium	82000		280	2000

6010B Dissolved Metals-Dissolved

Analysis Method:	6010B	Analysis Batch:	360-79397	Instrument ID:	Varian ICP
	N/A		N/A	Lab File ID:	090111b.csv
Dilution:	1.0			Initial Weight/Volume:	1.0 mL
Analysis Date:	09/01/2011 1408			Final Weight/Volume:	1.0 mL
Prep Date:	N/A				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	ND		13	100
Chromium	ND		0.65	5.0
Sodium	99000	B	280	2000

Analytical Data

Client: Olin Corporation

Job Number: 360-35898-1

Client Sample ID: OC-SW-PZ-16RRSW

Lab Sample ID: 360-35898-4

Date Sampled: 08/23/2011 0925

Client Matrix: Water

Date Received: 08/23/2011 1645

6010B Total Metals

Analysis Method:	6010B	Analysis Batch:	360-79049	Instrument ID:	Varian ICP
Prep Method:	3010A	Prep Batch:	360-78938	Lab File ID:	082611a.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/26/2011 1235			Final Weight/Volume:	50 mL
Prep Date:	08/25/2011 0737				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	1900		13	100
Chromium	560		0.65	5.0
Sodium	160000		280	2000

6010B Dissolved Metals-Dissolved

Analysis Method:	6010B	Analysis Batch:	360-79397	Instrument ID:	Varian ICP
	N/A		N/A	Lab File ID:	090111b.csv
Dilution:	1.0			Initial Weight/Volume:	1.0 mL
Analysis Date:	09/01/2011 1411			Final Weight/Volume:	1.0 mL
Prep Date:	N/A				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	1500		13	100
Chromium	490		0.65	5.0
Sodium	200000	B	280	2000

Analytical Data

Client: Olin Corporation

Job Number: 360-35898-1

Client Sample ID: OC-SW-PZ-17RRSW

Lab Sample ID: 360-35898-5

Date Sampled: 08/23/2011 0940

Client Matrix: Water

Date Received: 08/23/2011 1645

6010B Total Metals

Analysis Method:	6010B	Analysis Batch:	360-79049	Instrument ID:	Varian ICP
Prep Method:	3010A	Prep Batch:	360-78938	Lab File ID:	082611a.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/26/2011 1238			Final Weight/Volume:	50 mL
Prep Date:	08/25/2011 0737				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	5700		13	100
Chromium	1300		0.65	5.0
Sodium	160000		280	2000

6010B Dissolved Metals-Dissolved

Analysis Method:	6010B	Analysis Batch:	360-79397	Instrument ID:	Varian ICP
	N/A		N/A	Lab File ID:	090111b.csv
Dilution:	1.0			Initial Weight/Volume:	1.0 mL
Analysis Date:	09/01/2011 1414			Final Weight/Volume:	1.0 mL
Prep Date:	N/A				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	1400		13	100
Chromium	600		0.65	5.0
Sodium	190000	B	280	2000

Analytical Data

Client: Olin Corporation

Job Number: 360-35898-1

Client Sample ID: OC-SW-PZ-18RSWLab Sample ID: 360-35898-6
Client Matrix: WaterDate Sampled: 08/23/2011 1010
Date Received: 08/23/2011 1645**6010B Total Metals**

Analysis Method:	6010B	Analysis Batch:	360-79049	Instrument ID:	Varian ICP
Prep Method:	3010A	Prep Batch:	360-78938	Lab File ID:	082611a.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/26/2011 1241			Final Weight/Volume:	50 mL
Prep Date:	08/25/2011 0737				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	140		13	100
Chromium	15		0.65	5.0
Sodium	67000		280	2000

6010B Dissolved Metals-Dissolved

Analysis Method:	6010B	Analysis Batch:	360-79397	Instrument ID:	Varian ICP
	N/A		N/A	Lab File ID:	090111b.csv
Dilution:	1.0			Initial Weight/Volume:	1.0 mL
Analysis Date:	09/01/2011 1418			Final Weight/Volume:	1.0 mL
Prep Date:	N/A				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	36	J	13	100
Chromium	8.2		0.65	5.0
Sodium	89000	B	280	2000

Analytical Data

Client: Olin Corporation

Job Number: 360-35898-1

Client Sample ID: OC-SW-SD-17Lab Sample ID: 360-35898-7
Client Matrix: WaterDate Sampled: 08/23/2011 0950
Date Received: 08/23/2011 1645**6010B Total Metals**

Analysis Method:	6010B	Analysis Batch:	360-79049	Instrument ID:	Varian ICP
Prep Method:	3010A	Prep Batch:	360-78938	Lab File ID:	082611a.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/26/2011 1244			Final Weight/Volume:	50 mL
Prep Date:	08/25/2011 0737				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	1200		13	100
Chromium	280		0.65	5.0
Sodium	96000		280	2000

6010B Dissolved Metals-Dissolved

Analysis Method:	6010B	Analysis Batch:	360-79397	Instrument ID:	Varian ICP
	N/A		N/A	Lab File ID:	090111b.csv
Dilution:	1.0			Initial Weight/Volume:	1.0 mL
Analysis Date:	09/01/2011 1421			Final Weight/Volume:	1.0 mL
Prep Date:	N/A				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	920		13	100
Chromium	280		0.65	5.0
Sodium	140000	B	280	2000

Analytical Data

Client: Olin Corporation

Job Number: 360-35898-1

General Chemistry

Client Sample ID:	OC-SW-ISCO1						
Lab Sample ID:	360-35898-1						
Client Matrix:	Water						
Analyte	Result	Qual	Units	RL	RL	Dil	Method
Nitrate as N	0.080		mg/L	0.050	0.050	1.0	300.0
	Analysis Batch: 360-79061		Analysis Date: 08/24/2011 1855				
Sulfate	130		mg/L	20	20	10	300.0
	Analysis Batch: 360-79030		Analysis Date: 08/24/2011 1911				
Chloride	110		mg/L	10	10	10	300.0
	Analysis Batch: 360-79030		Analysis Date: 08/24/2011 1911				
Nitrite as N	ND		mg/L	0.10	0.10	10	300.0
	Analysis Batch: 360-79065		Analysis Date: 08/24/2011 1911				
Ammonia	37		mg/L	1.0	1.0	10	L107-06-1B
	Analysis Batch: 360-79216		Analysis Date: 08/30/2011 1541				
	Prep Batch: 360-79183		Prep Date: 08/30/2011 1154				
Specific Conductance	790		umhos/cm	1.0	1.0	1.0	SM 2510B
	Analysis Batch: 360-79387		Analysis Date: 09/01/2011 1215				

Analytical Data

Client: Olin Corporation

Job Number: 360-35898-1

General Chemistry

Client Sample ID:	OC-SW-ISCO2						
Lab Sample ID:	360-35898-2						
Client Matrix:	Water						
Analyte	Result	Qual	Units	RL	RL	Dil	Method
Nitrate as N	0.79		mg/L	0.050	0.050	1.0	300.0
	Analysis Batch: 360-79061		Analysis Date: 08/24/2011 1959				
Sulfate	580		mg/L	20	20	10	300.0
	Analysis Batch: 360-79030		Analysis Date: 08/24/2011 2015				
Chloride	170		mg/L	10	10	10	300.0
	Analysis Batch: 360-79030		Analysis Date: 08/24/2011 2015				
Nitrite as N	ND		mg/L	0.10	0.10	10	300.0
	Analysis Batch: 360-79065		Analysis Date: 08/24/2011 2015				
Ammonia	98		mg/L	1.0	1.0	10	L107-06-1B
	Analysis Batch: 360-79216		Analysis Date: 08/30/2011 1542				
	Prep Batch: 360-79183		Prep Date: 08/30/2011 1154				
Specific Conductance	2200		umhos/cm	1.0	1.0	1.0	SM 2510B
	Analysis Batch: 360-79387		Analysis Date: 09/01/2011 1215				

Analytical Data

Client: Olin Corporation

Job Number: 360-35898-1

General Chemistry

Client Sample ID:	OC-SW-ISCO3						
Lab Sample ID:	360-35898-3						
Client Matrix:	Water						
Analyte	Result	Qual	Units	RL	RL	Dil	Method
Nitrate as N	0.70		mg/L	0.050	0.050	1.0	300.0
	Analysis Batch: 360-79061		Analysis Date: 08/24/2011 2032				
Sulfate	22		mg/L	2.0	2.0	1.0	300.0
	Analysis Batch: 360-79030		Analysis Date: 08/24/2011 2032				
Chloride	200		mg/L	10	10	10	300.0
	Analysis Batch: 360-79030		Analysis Date: 08/24/2011 2048				
Nitrite as N	ND		mg/L	0.10	0.10	10	300.0
	Analysis Batch: 360-79065		Analysis Date: 08/24/2011 2048				
Ammonia	1.7		mg/L	0.10	0.10	1.0	L107-06-1B
	Analysis Batch: 360-79216		Analysis Date: 08/30/2011 1516				
	Prep Batch: 360-79183		Prep Date: 08/30/2011 1154				
Specific Conductance	800		umhos/cm	1.0	1.0	1.0	SM 2510B
	Analysis Batch: 360-79387		Analysis Date: 09/01/2011 1215				

Analytical Data

Client: Olin Corporation

Job Number: 360-35898-1

General Chemistry**Client Sample ID:** OC-SW-PZ-16RRSW

Lab Sample ID: 360-35898-4

Date Sampled: 08/23/2011 0925

Client Matrix: Water

Date Received: 08/23/2011 1645

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Nitrate as N	0.39		mg/L	0.050	0.050	1.0	300.0
	Analysis Batch: 360-79061		Analysis Date: 08/24/2011 2104				
Sulfate	620		mg/L	20	20	10	300.0
	Analysis Batch: 360-79030		Analysis Date: 08/24/2011 2120				
Chloride	190		mg/L	10	10	10	300.0
	Analysis Batch: 360-79030		Analysis Date: 08/24/2011 2120				
Nitrite as N	ND		mg/L	0.10	0.10	10	300.0
	Analysis Batch: 360-79065		Analysis Date: 08/24/2011 2120				
Ammonia	110		mg/L	1.0	1.0	10	L107-06-1B
	Analysis Batch: 360-79216		Analysis Date: 08/30/2011 1543				
	Prep Batch: 360-79183		Prep Date: 08/30/2011 1154				
Specific Conductance	2300		umhos/cm	1.0	1.0	1.0	SM 2510B
	Analysis Batch: 360-79387		Analysis Date: 09/01/2011 1215				

Analytical Data

Client: Olin Corporation

Job Number: 360-35898-1

General Chemistry**Client Sample ID:** OC-SW-PZ-17RRSW

Lab Sample ID: 360-35898-5

Date Sampled: 08/23/2011 0940

Client Matrix: Water

Date Received: 08/23/2011 1645

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Nitrate as N	0.18		mg/L	0.050	0.050	1.0	300.0
	Analysis Batch: 360-79061		Analysis Date: 08/24/2011 2208				
Sulfate	600		mg/L	20	20	10	300.0
	Analysis Batch: 360-79030		Analysis Date: 08/24/2011 2224				
Chloride	190		mg/L	10	10	10	300.0
	Analysis Batch: 360-79030		Analysis Date: 08/24/2011 2224				
Nitrite as N	ND		mg/L	0.10	0.10	10	300.0
	Analysis Batch: 360-79065		Analysis Date: 08/24/2011 2224				
Ammonia	110		mg/L	1.0	1.0	10	L107-06-1B
	Analysis Batch: 360-79216		Analysis Date: 08/30/2011 1544				
	Prep Batch: 360-79183		Prep Date: 08/30/2011 1154				
Specific Conductance	2200		umhos/cm	1.0	1.0	1.0	SM 2510B
	Analysis Batch: 360-79387		Analysis Date: 09/01/2011 1215				

Analytical Data

Client: Olin Corporation

Job Number: 360-35898-1

General Chemistry**Client Sample ID:** OC-SW-PZ-18RSW

Lab Sample ID: 360-35898-6

Date Sampled: 08/23/2011 1010

Client Matrix: Water

Date Received: 08/23/2011 1645

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Nitrate as N	0.078		mg/L	0.050	0.050	1.0	300.0
	Analysis Batch: 360-79061		Analysis Date: 08/24/2011 2240				
Sulfate	130		mg/L	20	20	10	300.0
	Analysis Batch: 360-79030		Analysis Date: 08/24/2011 2256				
Chloride	110		mg/L	10	10	10	300.0
	Analysis Batch: 360-79030		Analysis Date: 08/24/2011 2256				
Nitrite as N	ND		mg/L	0.010	0.010	1.0	300.0
	Analysis Batch: 360-79065		Analysis Date: 08/24/2011 2240				
Ammonia	33		mg/L	0.50	0.50	5.0	L107-06-1B
	Analysis Batch: 360-79216		Analysis Date: 08/30/2011 1545				
	Prep Batch: 360-79183		Prep Date: 08/30/2011 1154				
Specific Conductance	790		umhos/cm	1.0	1.0	1.0	SM 2510B
	Analysis Batch: 360-79387		Analysis Date: 09/01/2011 1215				

Analytical Data

Client: Olin Corporation

Job Number: 360-35898-1

General Chemistry

Client Sample ID:	OC-SW-SD-17						
Lab Sample ID:	360-35898-7						
Client Matrix:	Water						
Analyte	Result	Qual	Units	RL	RL	Dil	Method
Nitrate as N	0.16		mg/L	0.050	0.050	1.0	300.0
	Analysis Batch: 360-79061		Analysis Date: 08/24/2011 2313				
Sulfate	240		mg/L	20	20	10	300.0
	Analysis Batch: 360-79030		Analysis Date: 08/24/2011 2329				
Chloride	130		mg/L	10	10	10	300.0
	Analysis Batch: 360-79030		Analysis Date: 08/24/2011 2329				
Nitrite as N	ND		mg/L	0.10	0.10	10	300.0
	Analysis Batch: 360-79065		Analysis Date: 08/24/2011 2329				
Ammonia	41		mg/L	0.50	0.50	5.0	L107-06-1B
	Analysis Batch: 360-79587		Analysis Date: 09/06/2011 1511				
	Prep Batch: 360-79479		Prep Date: 09/02/2011 1415				
Specific Conductance	1100		umhos/cm	1.0	1.0	1.0	SM 2510B
	Analysis Batch: 360-79387		Analysis Date: 09/01/2011 1215				

DATA REPORTING QUALIFIERS

Client: Olin Corporation

Job Number: 360-35898-1

Lab Section	Qualifier	Description
Metals	B	Compound was found in the blank and sample.
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

QUALITY CONTROL RESULTS

Quality Control Results

Client: Olin Corporation

Job Number: 360-35898-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 360-78938					
LCS 360-78938/2-A	Lab Control Sample	T	Water	3010A	
LCSD 360-78938/3-A	Lab Control Sample Duplicate	T	Water	3010A	
MB 360-78938/1-A	Method Blank	T	Water	3010A	
360-35898-1	OC-SW-ISCO1	T	Water	3010A	
360-35898-2	OC-SW-ISCO2	T	Water	3010A	
360-35898-3	OC-SW-ISCO3	T	Water	3010A	
360-35898-4	OC-SW-PZ-16RRSW	T	Water	3010A	
360-35898-5	OC-SW-PZ-17RRSW	T	Water	3010A	
360-35898-6	OC-SW-PZ-18RSW	T	Water	3010A	
360-35898-7	OC-SW-SD-17	T	Water	3010A	
Analysis Batch:360-79049					
LCS 360-78938/2-A	Lab Control Sample	T	Water	6010B	360-78938
LCSD 360-78938/3-A	Lab Control Sample Duplicate	T	Water	6010B	360-78938
MB 360-78938/1-A	Method Blank	T	Water	6010B	360-78938
360-35898-1	OC-SW-ISCO1	T	Water	6010B	360-78938
360-35898-2	OC-SW-ISCO2	T	Water	6010B	360-78938
360-35898-3	OC-SW-ISCO3	T	Water	6010B	360-78938
360-35898-4	OC-SW-PZ-16RRSW	T	Water	6010B	360-78938
360-35898-5	OC-SW-PZ-17RRSW	T	Water	6010B	360-78938
360-35898-6	OC-SW-PZ-18RSW	T	Water	6010B	360-78938
360-35898-7	OC-SW-SD-17	T	Water	6010B	360-78938
Analysis Batch:360-79397					
LCS 360-79397/1	Lab Control Sample	T	Water	6010B	
LCSD 360-79397/8	Lab Control Sample Duplicate	T	Water	6010B	
MB 360-79397/2	Method Blank	T	Water	6010B	
360-35898-1	OC-SW-ISCO1	D	Water	6010B	
360-35898-1DU	Duplicate	D	Water	6010B	
360-35898-1MS	Matrix Spike	D	Water	6010B	
360-35898-2	OC-SW-ISCO2	D	Water	6010B	
360-35898-3	OC-SW-ISCO3	D	Water	6010B	
360-35898-4	OC-SW-PZ-16RRSW	D	Water	6010B	
360-35898-5	OC-SW-PZ-17RRSW	D	Water	6010B	
360-35898-6	OC-SW-PZ-18RSW	D	Water	6010B	
360-35898-7	OC-SW-SD-17	D	Water	6010B	

Report Basis

D = Dissolved

T = Total

Quality Control Results

Client: Olin Corporation

Job Number: 360-35898-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:360-79030					
LCS 360-79030/4	Lab Control Sample	T	Water	300.0	
MB 360-79030/3	Method Blank	T	Water	300.0	
360-35898-1	OC-SW-ISCO1	T	Water	300.0	
360-35898-1MS	Matrix Spike	T	Water	300.0	
360-35898-1MSD	Matrix Spike Duplicate	T	Water	300.0	
360-35898-2	OC-SW-ISCO2	T	Water	300.0	
360-35898-3	OC-SW-ISCO3	T	Water	300.0	
360-35898-4	OC-SW-PZ-16RRSW	T	Water	300.0	
360-35898-5	OC-SW-PZ-17RRSW	T	Water	300.0	
360-35898-6	OC-SW-PZ-18RSW	T	Water	300.0	
360-35898-7	OC-SW-SD-17	T	Water	300.0	
Analysis Batch:360-79061					
LCS 360-79061/5	Lab Control Sample	T	Water	300.0	
MB 360-79061/4	Method Blank	T	Water	300.0	
360-35898-1	OC-SW-ISCO1	T	Water	300.0	
360-35898-1MS	Matrix Spike	T	Water	300.0	
360-35898-1MSD	Matrix Spike Duplicate	T	Water	300.0	
360-35898-2	OC-SW-ISCO2	T	Water	300.0	
360-35898-3	OC-SW-ISCO3	T	Water	300.0	
360-35898-4	OC-SW-PZ-16RRSW	T	Water	300.0	
360-35898-5	OC-SW-PZ-17RRSW	T	Water	300.0	
360-35898-6	OC-SW-PZ-18RSW	T	Water	300.0	
360-35898-7	OC-SW-SD-17	T	Water	300.0	
Analysis Batch:360-79065					
LCS 360-79065/5	Lab Control Sample	T	Water	300.0	
MB 360-79065/4	Method Blank	T	Water	300.0	
360-35898-1	OC-SW-ISCO1	T	Water	300.0	
360-35898-1MS	Matrix Spike	T	Water	300.0	
360-35898-1MSD	Matrix Spike Duplicate	T	Water	300.0	
360-35898-2	OC-SW-ISCO2	T	Water	300.0	
360-35898-3	OC-SW-ISCO3	T	Water	300.0	
360-35898-4	OC-SW-PZ-16RRSW	T	Water	300.0	
360-35898-5	OC-SW-PZ-17RRSW	T	Water	300.0	
360-35898-6	OC-SW-PZ-18RSW	T	Water	300.0	
360-35898-7	OC-SW-SD-17	T	Water	300.0	

Quality Control Results

Client: Olin Corporation

Job Number: 360-35898-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 360-79183					
LCS 360-79183/2-A	Lab Control Sample	T	Water	Distill/Ammonia	
MB 360-79183/1-A	Method Blank	T	Water	Distill/Ammonia	
360-35898-1	OC-SW-ISCO1	T	Water	Distill/Ammonia	
360-35898-2	OC-SW-ISCO2	T	Water	Distill/Ammonia	
360-35898-3	OC-SW-ISCO3	T	Water	Distill/Ammonia	
360-35898-4	OC-SW-PZ-16RRSW	T	Water	Distill/Ammonia	
360-35898-5	OC-SW-PZ-17RRSW	T	Water	Distill/Ammonia	
360-35898-6	OC-SW-PZ-18RRSW	T	Water	Distill/Ammonia	
Analysis Batch:360-79216					
LCS 360-79183/2-A	Lab Control Sample	T	Water	L107-06-1B	360-79183
MB 360-79183/1-A	Method Blank	T	Water	L107-06-1B	360-79183
360-35898-1	OC-SW-ISCO1	T	Water	L107-06-1B	360-79183
360-35898-2	OC-SW-ISCO2	T	Water	L107-06-1B	360-79183
360-35898-3	OC-SW-ISCO3	T	Water	L107-06-1B	360-79183
360-35898-4	OC-SW-PZ-16RRSW	T	Water	L107-06-1B	360-79183
360-35898-5	OC-SW-PZ-17RRSW	T	Water	L107-06-1B	360-79183
360-35898-6	OC-SW-PZ-18RRSW	T	Water	L107-06-1B	360-79183
Analysis Batch:360-79387					
LCS 360-79387/2	Lab Control Sample	T	Water	SM 2510B	
MB 360-79387/1	Method Blank	T	Water	SM 2510B	
360-35898-1	OC-SW-ISCO1	T	Water	SM 2510B	
360-35898-1DU	Duplicate	T	Water	SM 2510B	
360-35898-2	OC-SW-ISCO2	T	Water	SM 2510B	
360-35898-3	OC-SW-ISCO3	T	Water	SM 2510B	
360-35898-4	OC-SW-PZ-16RRSW	T	Water	SM 2510B	
360-35898-5	OC-SW-PZ-17RRSW	T	Water	SM 2510B	
360-35898-6	OC-SW-PZ-18RRSW	T	Water	SM 2510B	
360-35898-7	OC-SW-SD-17	T	Water	SM 2510B	
Prep Batch: 360-79479					
LCS 360-79479/2-A	Lab Control Sample	T	Water	Distill/Ammonia	
MB 360-79479/1-A	Method Blank	T	Water	Distill/Ammonia	
360-35898-7	OC-SW-SD-17	T	Water	Distill/Ammonia	
360-35898-7MS	Matrix Spike	T	Water	Distill/Ammonia	
360-35898-7MSD	Matrix Spike Duplicate	T	Water	Distill/Ammonia	
Analysis Batch:360-79587					
LCS 360-79479/2-A	Lab Control Sample	T	Water	L107-06-1B	360-79479
MB 360-79479/1-A	Method Blank	T	Water	L107-06-1B	360-79479
360-35898-7	OC-SW-SD-17	T	Water	L107-06-1B	360-79479
360-35898-7MS	Matrix Spike	T	Water	L107-06-1B	360-79479
360-35898-7MSD	Matrix Spike Duplicate	T	Water	L107-06-1B	360-79479

Quality Control Results

Client: Olin Corporation

Job Number: 360-35898-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
---------------	------------------	--------------	---------------	--------	------------

Report Basis

T = Total

Quality Control Results

Client: Olin Corporation

Job Number: 360-35898-1

Method Blank - Batch: 360-78938**Method: 6010B****Preparation: 3010A**

Lab Sample ID:	MB 360-78938/1-A	Analysis Batch:	360-79049	Instrument ID:	Varian ICP
Client Matrix:	Water	Prep Batch:	360-78938	Lab File ID:	082611a.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	08/26/2011 1134	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	08/25/2011 0735				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	ND		13	100
Chromium	ND		0.65	5.0
Sodium	ND		280	2000

Lab Control Sample/**Lab Control Sample Duplicate Recovery Report - Batch: 360-78938****Method: 6010B****Preparation: 3010A**

LCS Lab Sample ID:	LCS 360-78938/2-A	Analysis Batch:	360-79049	Instrument ID:	Varian ICP
Client Matrix:	Water	Prep Batch:	360-78938	Lab File ID:	082611a.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	08/26/2011 1137	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	08/25/2011 0735				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 360-78938/3-A	Analysis Batch:	360-79049	Instrument ID:	Varian ICP
Client Matrix:	Water	Prep Batch:	360-78938	Lab File ID:	082611a.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	08/26/2011 1140	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	08/25/2011 0735				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Aluminum	99	99	80 - 120	0	20		
Chromium	100	99	80 - 120	0	20		
Sodium	95	95	80 - 120	0	20		

Quality Control Results

Client: Olin Corporation

Job Number: 360-35898-1

Method Blank - Batch: 360-79397**Method: 6010B****Preparation: N/A**

Lab Sample ID:	MB 360-79397/2	Analysis Batch:	360-79397	Instrument ID:	Varian ICP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	090111b.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	09/01/2011 1211	Units:	ug/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	ND		13	100
Chromium	ND		0.65	5.0
Sodium	355	J	280	2000

Lab Control Sample/**Lab Control Sample Duplicate Recovery Report - Batch: 360-79397****Method: 6010B****Preparation: N/A**

LCS Lab Sample ID:	LCS 360-79397/1	Analysis Batch:	360-79397	Instrument ID:	Varian ICP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	090111b.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	09/01/2011 1209	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 360-79397/8	Analysis Batch:	360-79397	Instrument ID:	Varian ICP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	090111b.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	09/01/2011 1402	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Aluminum	99	103	80 - 120	3	20		
Chromium	98	101	80 - 120	4	20		
Sodium	94	97	80 - 120	3	20		

Quality Control Results

Client: Olin Corporation

Job Number: 360-35898-1

Matrix Spike - Batch: 360-79397

Method: 6010B

Preparation: N/A

Lab Sample ID:	360-35898-1	Analysis Batch:	360-79397	Instrument ID:	Varian ICP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	090111b.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	09/01/2011 1353	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	40	J	5000	5130	102	75 - 125
Chromium	8.6		1000	1000	99	75 - 125
Sodium	90000		20000	106000	76	75 - 125

Duplicate - Batch: 360-79397

Method: 6010B

Preparation: N/A

Lab Sample ID:	360-35898-1	Analysis Batch:	360-79397	Instrument ID:	Varian ICP
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	090111b.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	09/01/2011 1350	Units:	ug/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Aluminum	40	J	39.8	1	20
Chromium	8.6	8.58	0.2	20	
Sodium	90000	89400	1	20	

Quality Control Results

Client: Olin Corporation

Job Number: 360-35898-1

Method Blank - Batch: 360-79030

Method: 300.0

Preparation: N/A

Lab Sample ID:	MB 360-79030/3	Analysis Batch:	360-79030	Instrument ID:	Lachat 8500
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	08/24/2011 1823	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Sulfate	ND		2.0	2.0
Chloride	ND		1.0	1.0

Lab Control Sample - Batch: 360-79030

Method: 300.0

Preparation: N/A

Lab Sample ID:	LCS 360-79030/4	Analysis Batch:	360-79030	Instrument ID:	Lachat 8500
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	08/24/2011 1839	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	80.0	82.7	103	85 - 115	
Chloride	40.0	41.4	103	85 - 115	

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 360-79030

Method: 300.0

Preparation: N/A

MS Lab Sample ID:	360-35898-1	Analysis Batch:	360-79030	Instrument ID:	Lachat 8500
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	08/24/2011 1927			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	360-35898-1	Analysis Batch:	360-79030	Instrument ID:	Lachat 8500
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	08/24/2011 1943			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Sulfate	104	104	75 - 125	0	20		
Chloride	118	118	75 - 125	0	20		

Quality Control Results

Client: Olin Corporation

Job Number: 360-35898-1

Method Blank - Batch: 360-79061
Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 360-79061/4	Analysis Batch:	360-79061	Instrument ID:	Lachat 8500
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	08/24/2011 1823	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Nitrate as N	ND		0.050	0.050

Lab Control Sample - Batch: 360-79061
Method: 300.0
Preparation: N/A

Lab Sample ID:	LCS 360-79061/5	Analysis Batch:	360-79061	Instrument ID:	Lachat 8500
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	08/24/2011 1839	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N	4.00	4.16	104	85 - 115	

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 360-79061**
Method: 300.0
Preparation: N/A

MS Lab Sample ID:	360-35898-1	Analysis Batch:	360-79061	Instrument ID:	Lachat 8500
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	08/24/2011 1927			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	360-35898-1	Analysis Batch:	360-79061	Instrument ID:	Lachat 8500
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	08/24/2011 1943			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD				
Nitrate as N	93	93	75 - 125	0	20	

Quality Control Results

Client: Olin Corporation

Job Number: 360-35898-1

Method Blank - Batch: 360-79065
Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 360-79065/4	Analysis Batch:	360-79065	Instrument ID:	Lachat 8500
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	08/24/2011 1823	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Nitrite as N	ND		0.010	0.010

Lab Control Sample - Batch: 360-79065
Method: 300.0
Preparation: N/A

Lab Sample ID:	LCS 360-79065/5	Analysis Batch:	360-79065	Instrument ID:	Lachat 8500
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	08/24/2011 1839	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N	4.00	4.24	106	85 - 115	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 360-79065
Method: 300.0
Preparation: N/A

MS Lab Sample ID:	360-35898-1	Analysis Batch:	360-79065	Instrument ID:	Lachat 8500
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	08/24/2011 1927			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	360-35898-1	Analysis Batch:	360-79065	Instrument ID:	Lachat 8500
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	08/24/2011 1943			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Nitrite as N	110	111	75 - 125	0	20		

Quality Control Results

Client: Olin Corporation

Job Number: 360-35898-1

Method Blank - Batch: 360-79183**Method: L107-06-1B****Preparation: Distill/Ammonia**

Lab Sample ID:	MB 360-79183/1-A	Analysis Batch:	360-79216	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	360-79183	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	08/30/2011 1458	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	08/30/2011 1154				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Ammonia	ND		0.10	0.10

Lab Control Sample - Batch: 360-79183**Method: L107-06-1B****Preparation: Distill/Ammonia**

Lab Sample ID:	LCS 360-79183/2-A	Analysis Batch:	360-79216	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	360-79183	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	08/30/2011 1459	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	08/30/2011 1154				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia	10.0	9.04	90	90 - 110	

Quality Control Results

Client: Olin Corporation

Job Number: 360-35898-1

Method Blank - Batch: 360-79479**Method: L107-06-1B****Preparation: Distill/Ammonia**

Lab Sample ID:	MB 360-79479/1-A	Analysis Batch:	360-79587	Instrument ID:	Lachat
Client Matrix:	Water	Prep Batch:	360-79479	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/06/2011 1509	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	09/02/2011 1415				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Ammonia	ND		0.10	0.10

Lab Control Sample - Batch: 360-79479**Method: L107-06-1B****Preparation: Distill/Ammonia**

Lab Sample ID:	LCS 360-79479/2-A	Analysis Batch:	360-79587	Instrument ID:	Lachat
Client Matrix:	Water	Prep Batch:	360-79479	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/06/2011 1510	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	09/02/2011 1415				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia	10.0	9.33	93	90 - 110	

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 360-79479****Method: L107-06-1B****Preparation: Distill/Ammonia**

MS Lab Sample ID:	360-35898-7	Analysis Batch:	360-79587	Instrument ID:	Lachat
Client Matrix:	Water	Prep Batch:	360-79479	Lab File ID:	N/A
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/06/2011 1512			Final Weight/Volume:	50 mL
Prep Date:	09/02/2011 1415				
Leach Date:	N/A				

MSD Lab Sample ID:	360-35898-7	Analysis Batch:	360-79587	Instrument ID:	Lachat
Client Matrix:	Water	Prep Batch:	360-79479	Lab File ID:	N/A
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/06/2011 1513			Final Weight/Volume:	50 mL
Prep Date:	09/02/2011 1415				
Leach Date:	N/A				

Analyte	% Rec.		RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD				
Ammonia	145	152	90 - 110	1	20	4

Quality Control Results

Client: Olin Corporation

Job Number: 360-35898-1

Method Blank - Batch: 360-79387**Method: SM 2510B****Preparation: N/A**

Lab Sample ID:	MB 360-79387/1	Analysis Batch:	360-79387	Instrument ID:	hand held
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/01/2011 1215	Units:	umhos/cm	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Specific Conductance	ND		1.0	1.0

Lab Control Sample - Batch: 360-79387**Method: SM 2510B****Preparation: N/A**

Lab Sample ID:	LCS 360-79387/2	Analysis Batch:	360-79387	Instrument ID:	hand held
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/01/2011 1215	Units:	umhos/cm	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Specific Conductance	1410	1420	100	85 - 115	

Duplicate - Batch: 360-79387**Method: SM 2510B****Preparation: N/A**

Lab Sample ID:	360-35898-1	Analysis Batch:	360-79387	Instrument ID:	hand held
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/01/2011 1215	Units:	umhos/cm	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Specific Conductance	790	777	2	20	

DILUTION LOGS

TestAmerica Westfield

Analytical Dilution Preparation Log

Date:

8-24-11

entries completed by day [new page each day]

୧୮

Date: 8-24-11

Analyst Initials	Date	Method	LIMS Sample ID	Rpt'd Dil.	Sample Aliquot 1	Final Volume 1	Units	Serial Dilution		
								Sample Aliquot 2	Final Volume 2	Units
RUE	8-24-04	300:0	35848C1	10K	C2	1	µL	10	µL	
					C3					
					C4					
					C5					
					C6					
					C7					
					C8					
					C9					
					C10					
					C11					
					C12					
					C13					
					C14					
					C15					
					C16					
					C17					
					C18					
					C19					
					C20					
					C21					
					C22					
					C23					
					C24					
					C25					
					C26					
					C27					
					C28					
					C29					
					C30					
					C31					
					C32					
					C33					
					C34					
					C35					
					C36					
					C37					
					C38					
					C39					
					C40					
					C41					
					C42					
					C43					
					C44					
					C45					
					C46					
					C47					
					C48					
					C49					
					C50					
					C51					
					C52					
					C53					
					C54					
					C55					
					C56					
					C57					
					C58					
					C59					
					C60					
					C61					
					C62					
					C63					
					C64					
					C65					
					C66					
					C67					
					C68					
					C69					
					C70					
					C71					
					C72					
					C73					
					C74					
					C75					
					C76					
					C77					
					C78					
					C79					
					C80					
					C81					
					C82					
					C83					
					C84					
					C85					
					C86					
					C87					
					C88					
					C89					
					C90					
					C91					
					C92					
					C93					
					C94					
					C95					
					C96					
					C97					
					C98					
					C99					
					C100					
					C101					
					C102					
					C103					
					C104					
					C105					
					C106					
					C107					
					C108					
					C109					
					C110					
					C111					
					C112					
					C113					
					C114					
					C115					
					C116					
					C117					
					C118					
					C119					
					C120					
					C121					
					C122					
					C123					
					C124					
					C125					
					C126					
					C127					
					C128					
					C129					
					C130					
					C131					
					C132					
					C133					
					C134					
					C135					
					C136					
					C137					
					C138					
					C139					
					C140					
					C141					
					C142					
					C143					
					C144					
					C145					
					C146					
					C147					
					C148					
					C149					
					C150					
					C151					
					C152					
					C153					
					C154					
					C155					
					C156					
					C157					
					C158					
					C159					
					C160					
					C161					
					C162					
					C163					
					C164					
					C165					
					C166					
					C167					
					C168					
					C169					
					C170					
					C171					
					C172					
					C173					
					C174					
					C175					
					C176					
					C177					
					C178					
					C179					
					C180					
					C181					
					C182					
					C183					
					C184					
					C185					
					C186					
					C187					
					C188					
					C189					
					C190					
					C191					
					C192					
					C193					
					C194					
					C195					
					C196					
					C197					
					C198					
					C199					
					C200					
					C201					
					C202					
					C203					
					C204					
					C205					
					C206					
					C207					
					C208					
					C209					
					C210					
					C211					
					C212					
					C213					
					C214					
					C215					
					C216					
					C217					
					C218					
					C219					
					C220					
					C221					
					C222					
					C223					
					C224					
					C225					
					C226					
					C227					
					C228					

entries completed by day [new page each day]

Jfus 8. 311

୧୦

TestAmerica Westfield

Analytical Dilution Preparation Log

Date: 8-30-04

entries completed by day [new page each day]

四

TestAmerica Westfield

Analytical Dilution Preparation Log

Date:

11-9-1

entries completed by day [new page each day]

State Accreditation Matrix

Method Name	Description	State where Primary Accreditation is Carried			
		New Hampshire (NELAC)	Mass	Conn	North Carolina
821-R-02-012	Toxicity, Acute (48-Hour)(list upon request)	NP			
SM 4500 CI F	Chlorine, Residual		NP		
SM 9215E	Heterotrophic Plate Count (SimPlate)		P		
SM 9222D	Coliforms, Fecal (Membrane Filter)		P/NP		
SM 9223	Coliforms, Total, and E.Coli (Colilert-P/A)		P		
SM 9224	Coliforms, Total, and E.Coli (Enumeration)		P		
1103.1	E.coli		ambient/ source		
Enterolert	Enterococcus				
200.8 Rev 5.4	Metals (ICP/MS) (list upon request)	NP/P	NP/P		
200.7 Rev 4.4	Metals (ICP)(list upon request)	NP/P	NP/P		
6010B	Metals (ICP)(list upon request)	NP/SW			
245.1	Mercury (CVAA)	NP/P	NP		
7470A	Mercury (CVAA)	NP			
7471A	Mercury (CVAA)	SW			
SM 2340B	Total Hardness (as CaCO ₃) by calculation	NP/P	NP		
3005A	Preparation, Total Recoverable or Dissolved Metals	NP/P			
3010A	Preparation, Total Metals	NP/P			
3020A	Preparation, Total Metals	NP/P/SW			
3050B	Preparation, Metals	SW			
504.1	EDB, DBCP and 1,2,3-TCP (GC)	P	P		
608	Organochlorine Pest/PCBs (list upon request)	NP	NP		
625	Semivolatile Org Comp (GC/MS)(list upon request)	NP	NP		
3546	Microwave Extraction	SW			
3510C	Liquid-Liquid Extraction (Separatory Funnel)	NP			
3550B	Ultrasonic Extraction	SW			
8081A	Organochlorine Pesticides (GC)(list upon request)	NP/SW			
8082	PCBs by Gas Chromatography(list upon request)	NP/SW			
8270C	Semivolatile Comp.(GC/MS)(list upon request)	NP/SW			
CT ETPH	Conn - Ext. Total petroleum Hydrocarbons (GC)			NP/SW	
MA-EPH	Mass - Extractable Petroleum Hydrocarbons (GC)				NP/SW
524.2	Volatile Org Comp (GC/MS)(list upon request)	P	P		
524.2	Trihalomethane compounds	P	P		
624	Volatile Org Comp (GC/MS)(list upon request)	NP	NP		
5035	Closed System Purge and Trap	SW			
5030B	Purge and Trap	NP			
8260B	Volatile Org Comp. (GC/MS)(list upon request)	NP/SW			
MAVPH	Mass - Volatile Petroleum Hydrocarbons (GC)				NP/SW
180.1	Turbidity, Nephelometric	P	P		
300	Anions, Ion Chromatography	NP/P	NP/P		
410.4	COD	NP	NP		
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW			
10-107-06-2	Nitrogen, Total Kjeldahl	NP	NP		
7196A	Chromium, Hexavalent	NP/SW			
9012A	Cyanide, Total and/or Amenable	NP/SW			
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	NP			
9045C	pH	SW			
L107041C	Nitrogen, Nitrate	NP	P		
L107-06-1B	Nitrogen Ammonia	NP	NP		
L204001A CN	Cyanide, Total	P	NP/P		
L210-001A	Phenolics, Total Recoverable	NP	NP		
SM 2320B	Alkalinity	NP/P	NP/P		
SM 2510B	Conductivity, Specific Conductance	NP/P	NP/P		
SM 2540C	Solids, Total Dissolved (TDS)	NP/P	NP/P		
SM 2540D	Solids, Total Suspended (TSS)	NP	NP		
SM 3500 CR D	Chromium, Hexavalent	NP			
SM 4500 H+ B	pH	NP/P	NP/P		
SM 4500 NO2 B	Nitrogen, Nitrite	NP	P		
SM 4500 P E	Phosphorus, Orthophosphate	NP/P	NP		
SM 4500 P E	Phosphorus, Total	NP	NP		
SM 4500 S2 D	Sulfide, Total	NP			
SM 5210B	BOD, 5-Day	NP	NP		
SM 5310B	Organic Carbon, Total (TOC)	NP/P	NP		

Not all organic compounds are accredited under NELAC

For methods with multiple compounds all compounds may not meet NELAC criteria, listing should be obtained from the laboratory

The lab carries additional accreditations with several states. This is the laboratories typical listing but is subject to change based on the laboratories current certification standing.

Login Sample Receipt Checklist

Client: Olin Corporation

Job Number: 360-35898-1

Login Number: 35898

List Source: TestAmerica Westfield

List Number: 1

Creator: Ard, Vanessa L

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

